Commonwealth of Massachusetts Sustainable Design Roundtable

January 13, 2005 Meeting Notes

sponsored by the
Executive Office of Environmental Affairs
Division of Capital Asset Management

through a grant from the Massachusetts Technology Collaborative

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Introduction

As part of larger efforts to promote sustainability and sound environmental policy, the Commonwealth of Massachusetts is exploring ways in which state actions, activities and programs can better incorporate sustainable design practices into public building construction projects, whenever possible. To initiate this effort, the Executive Office of Environmental Affairs (EOEA), in collaboration with the Division of Capital Asset Management (DCAM) and the Massachusetts Technology Collaborative (MTC), established a Sustainable Design Roundtable to foster and promote dialogue about green buildings between the public and private sectors, to investigate the barriers to sustainable design and construction in public building projects, and to recommend strategies to promote more green building practices in state construction.

On January 13, 2005, sixty design and construction professionals and other experts responsible for funding, planning and managing public construction from the public and private sectors participated in the first meeting of the Sustainable Design Roundtable in Boston, Massachusetts. The meeting agenda in Appendix A provides an outline of what happed during the all-morning session. After opening remarks and an explanation of the Roundtable's goals and objectives, the participants separated into seven working groups to discuss barriers and opportunities for sustainable design in public construction. At the end of the session, the working groups presented their initial findings to the larger Roundtable group. These notes represent a summary of the initial findings of the working groups as well as highlight the Roundtable's goals and objectives and what was discussed during this first session.

Kick Off Remarks

Eric Friedman, EOEA and John DiModica, DCAM, as Co-Chairs of the Roundtable, introduced the keynote speakers. The Roundtable meeting began with opening remarks by:

- Douglas Foy, Secretary, Office of Commonwealth Development
- Ellen Roy Herzfelder, Secretary, Executive Office of Environmental Affairs
- David Perini, Commissioner, Division of Capital Asset Management
- Rob Pratt, Director, Renewable Energy Trust.

All the speakers expressed their appreciation to Roundtable participants for taking the time to find ways to promote more sustainable design and construction in public buildings. The speakers also recognized the importance of sustainable design in public construction and noted how sustainable design is in line with the Commonwealth's environmental priorities of mitigating climate change, increasing smart growth and promoting healthy buildings and workers.

After opening remarks, the Roundtable participants were then asked to briefly introduce themselves. Appendix B lists the attendees of the first Roundtable session.

Background, Structure and Goals

Marie Zack Nolan, Executive Office of Environmental Affairs Sustainable Design Research Coordinator

Public Design and Construction in Massachusetts

Massachusetts is in a position to serve as a leader in sustainable construction projects as the state owns over 5,000 buildings, covering 92 million square feet of space, and spends over \$300 million annually on construction and renovation projects each year. The Commonwealth funds, plans and manages a wide variety of public projects from schools, hospitals and office buildings to colleges, prisons, park facilities and affordable housing. The Division of Capital Asset Management is the state's primary vertical construction agency. Other state agencies involved in public construction include the Department of Housing and Community Development, the Massachusetts Port Authority and the new School Building Assistance Authority. The Massachusetts Technology Collaborative oversees the MA Renewable Energy Trust Fund, which provides feasibility, design and construction assistance for green buildings and schools. Additional ways that the Commonwealth influences construction practices include development of state energy and building codes and regulations and the Massachusetts Environmental Policy Act (MEPA) environmental review process.

Background

Sustainable design and construction is important because buildings have been found to be a major source of air pollution, greenhouse gas emissions, energy consumption and waste generation. High performance green buildings can significantly reduce environmental and health impacts and can lead to long-term savings in operations and maintenance costs.

This current Roundtable is based on a similar one-day effort held in 2002, when over 50 public and private professionals involved in design and construction met and identified a number of key barriers to successful green building in public projects. The preliminary barriers documented by this group included the need for more education and training (for state operators & the trades involved in the design & construction of buildings), incentives (financial & otherwise), leadership, clear standards and measurements of success, a conducive bidding and awarding process, and a better understanding of first cost vs. operating cost issues.

Structure

The current Sustainable Design Roundtable was established by a grant from the MTC to establish a 20 month public/private Roundtable process, coordinated by EOEA, DCAM and MTC. EOEA Secretary Ellen Roy Herzfelder and DCAM Commissioner David Perini invited high-level representatives from 55 agencies, companies and non-profit organizations to participate in the Roundtable. Fifty-one organizations responded by stating they would like to participate in the Roundtable process.

Goals

The Sustainable Design Roundtable goals and objectives are threefold:

- To foster and promote dialog about green building issues between public and private design and construction professionals and other experts,
- To examine key barriers to sustainable design and construction and develop consensus recommendations on how to address these barriers, and
- To promote widespread incorporation of sustainable design practices and technologies into all state construction.

First meeting goals and objectives are:

- To initiate *communication* about sustainable design between those responsible for funding, planning and managing public construction and those who design and construct the buildings,
- To *discuss* Roundtable rationale and goals and *reach consensus* on the Roundtable process, goals and workplan,
- To form working groups and agree on group logistics,
- To *present initial conclusions* by working group on the key issues surrounding their barriers and *suggest actions* that would address the barriers, and
- To form a steering committee to provide guidance, feedback and direction.

Discussion of Key Barrier Categories

Eric Friedman, Executive Office of Environmental Affairs Director of State Sustainability Program and Co Chair, Sustainable Design Roundtable

Interviews with key stakeholders in the fall of 2004 showed that the barriers to sustainable design and construction were similar to those identified in 2002. However, many believed that the barrier on standards and measurement should be separated into a sustainable design metrics category and a standards, codes and regulations category to better describe the issues.

When members agreed to participate on this Roundtable, they prioritized the three barriers that they wanted to work on during the year-long process. Roundtable staff assigned them to one of these categories. After a meeting break, members participated in break-out sessions with others in their working group.

Working Group Breakouts

The participants were separated into seven working groups. Appendix C contains a list of working group members. The working groups held discussions on these key barrier categories:

- 1. Education and Training
- 2. Capital vs. Operating Budget
- 3. Bidding and Awarding Process
- 4. Vision and Leadership
- 5. Incentives
- 6. Sustainable Design Metrics
- 7. Standards, Codes & Regulations

These groups were led by a facilitator from EOEA, DCAM or Office of Commonwealth Development to help them select a Chair and answer the following three questions:

- What are the key issues surrounding this barrier?
- What are the initial key recommendations that address these barriers?
- What kind of assistance is required to address these barriers and recommendations (e.g. working group expertise, roundtable staff, outside consultants) and why?

The following are short descriptions of the working groups and the notes taken at each working group table. The results of each working group signify a starting point for future work. The working groups selected a Chair to help guide the group during the upcoming year as the Roundtable makes progress towards arriving at consensus recommendations to address barriers to sustainable design and construction in public buildings.

1/13/05 MA Sustainable Design Roundtable Working Group Notes Key Barrier Issues, Initial Recommendations, and Resource Needs

Group 1: Education and Training

Building designers, owners, managers and state officials should understand how building green affects the cost, material selection, and design process, as well as how to measure green building performance and benefits. This working group will identify on-going needs for tools, training, and communication channels for different stakeholders in the public and private sectors.

Key Barrier Issues:

- Access to resources (information)
 - Prioritization/coordination
 - Providing examples/template rather than "citing resources"
 - Quality control need "best of"
- Insufficient funding for education/training
- Lack of information on benefits and quantifying measures (especially productivity, health, etc.)
 - Need clear "pro" arguments (other than moral)
 - Identify benefits to owners, architects, contractors, etc.
- Education around process
- Needed for design professionals and owners
- Systems thinking
- Integration of different design building professions (owners, architects, contractors, engineers)
- Disconnects in communication
- Team/communication building skill development (challenging each other appropriately and asking the right questions)
- Clarification of responsibilities/documentation (especially for LEED certification—to happen up-front)
- Decision to LEED certify (instead of just building to LEED certification levels)
- Owners carry most of the burden for the decision to go LEED or not
- Vision and leadership—want a directive from the governor
- Issues can be impacted by politics
- Turf, authority issues related to inter-departmental interactions
- Competing priorities
- State role in design/construction professional training and education

Initial Recommendations:

- Support creation of a model document
- Organize a clearinghouse/resource center to coordinate information
- Collect proof in the form of case studies, local (DCAM) examples
- Record lessons learned
- Utilize more tools (like e-benchmarking)
- Design and conduct trainings
- Achieve agreement on standards
- Work towards a common long-term vision
- Language—use "high performance" instead of /in addition to "green"
- Request policy statement on green building from DCAM or governor
- Organize training or coordinated processes
- Code officials find ways to enforce code more effectively, hold them accountable for enforcement
- Public outreach/marketing
 - Leverage current outlets
 - Municipal work and connections
- Provide training on operations/maintenance

Group 2: Capital vs. Operating Budget

The lifetime performance of a building and its systems can be compromised by short term financial considerations that do not include life cycle cost analysis as part of the decision making process. This working group will examine the schism between capital, or first costs, and long term operating costs, and study how both types of costs can be considered when making decisions about building design, siting, and technology and material choices.

Key Barrier Issues:

- Direction to public projects already exists for some but not for all
 - Follow-through is lacking
 - Resources are not built into the design process
 - Standards exist for DCAM but may not exist for other agencies
- Feasibility study/project budget
 - Time and money requirements—set aside or not?
 - SOW for EE/SD needs to be identified early in the design process and contracting process (bid documents)
 - Time and money are necessary early in the SD/DD phase
- State requirements for LCA (life cycle cost analysis) should result in the inclusion of EE/SD elements and oversight to ensure both method and adoption of ECM
 - Is there an opportunity to capitalize downstream savings from better performing buildings?
 - Tools: Energy modeling both pre- and post-operational

Initial Recommendations:

- Examine current rules for budget allocation on construction projects
- Develop guidelines for use of both Capital and O&M budgets to support sustainable goals
- Financial mechanisms
 - Loan (backed by downstream savings)
 - Annuities for O+M
- Unify O+M budget with capital budget
- Tie funding for O+M to capital budget
- Funding for capital cost increases needs to be made for SD+EE investments
- State link downstream O+M to capital via feasibility study estimate costs for O+M
- Analogous to SBAD 2% incentive for better performance
- Demonstrate full costs of:
 - Building (and designing)
 - · Operating—utilities and other costs
 - Maintenance
 - Repair/replacement
 - Retro-commissioning
 - Quantification of not-easily-measured values
 - Recognition of performance improvements
 - Productivity/health
- Offer rewards for performance metrics for achieving good O+M savings (not by reducing their budget)

Resources Needed:

- · Legal guidance
- Policy guidance
- Research on best practices in other states regarding construction and delivery
- Internal/marketing/communication among state agencies involved in sustainability. Plan to focus on 'Asset Value' versus first cost conditions

Group 3: Bidding and Awarding Process

The current bidding and award process may not fully encourage integrated design nor does it guarantee the selection of professionals with significant experience in sustainable design. This working group will investigate methods for promoting sustainable approaches in state bidding and awarding procedures, especially in light of construction reform legislation passed earlier this year.

Key Barrier Issues:

- No requirement for sustainable qualifications in filed sub-bidders
- No Pre-qualification of:
 - Designers
 - Other professionals (movers, commissioning agents, legal, project managers)
 - Construction services
 - Construction managers
 - General contractors (lump sum)
 - Design-build firms
- Project cost threshold too low for utilizing state contracts not changed
- Chapter 149 may prohibit sole sourcing to utilities for M/E upgrades
- Possible unawareness of pre-qualification process by awarding authorities
- Poor communication on sustainability of products from OSD to PMs/designers
- Sole source bidding on sustainable products discouraged
- Lack of mechanism to discourage contractors and subcontractors from use of "equal" products that are not truly equal

Initial Recommendations:

- Examine Chapter 149 reform
- Provide input to DCAM's regulation drafting process
- Create development guidelines, implementation guide
- Broader performance based specifications life cycle based specifications v. first cost
- Extend warranties on "or equal" products
- Give centralized control to the building owner instead of hiring contractors and subcontractors
- Implement a method of gathering and communicating lessons learned on sustainable products sharing of "successful" specifications
- Follow-up on actual execution of specifications and installation of products
- Standardize specifications
- Extend warranty/performance expectations
- Give design team a stake in the cost of running the building (performance-based fees)

Resources:

- Summary of Chapter 149 changes
 - DCAM attorney assigned to implement
 - Office of Inspector General

Resources Needed:

- Legal guidance
- Input/thoughts of Legislators and key legislative staff
 - Diane Wilkerson (Senate)
 - Marty Walsh (House)
- Research on best practices in other states regarding construction and delivery
- Internal/marketing/communication among state agencies involved in sustainability

Group 4: Vision and Leadership

Many have stated the need for clear and definitive leadership from high levels of government and other key sectors. This working group will study ways in which these leaders could be encouraged to more effectively demonstrate a high level of support to ensure that sustainable design is accepted and implemented at all levels of government projects.

Key Barrier Issues:

- Current advocates at the state are not identified/recognized
- Small, uncoordinated local efforts need integration
- Can political focus/agendas/priorities transcend politics?
- Green will be an additional regulatory burden leading to more expense
- How can we encourage "green"/inclusivity?
- Bureaucratic inertia overcoming status quo
- Coordinated message needed statewide champions
- Leaders need vision and proof
- Create a multi-layered green environment (federal/state/local)
- What is commonly accepted "green vocabulary"?
- Lack of definition of "vision"
- New construction v. renovation

Initial Recommendations:

- Push education using common language and vision
 - What does "green" mean in our area of the country?
- What is the state's Vision 2020 and how does green/sustainable design fit in?
 - How do we mainstream sustainable design? (marketing)
- How does Massachusetts stay in the forefront (e.g. anti-smoking)?
- Need to identify champions who do it everyday
- · Encourage passion and drive
- Influence leaders' value systems and culture or paradigm shift
- Capture existing information better and highlight lack of recognition
- Develop and encourage leadership
 - · Bonus for LEED certification
- Executive Order? Policy statement?
- Mechanism for coordinating communication among all stakeholders
- Incorporate sustainable design into curricula (state and local)
- Identify top 50 leaders and educate them
- Marketing strategy:
 - Map out stakeholders
 - Map out resources

Resources Needed:

Coordinated high level vision (defined universally, aimed locally/specific)

- Marketing of vision/message/messenger/database
 - Highlight/showcase models that work
- State agencies as leader/motivator/implementers get in the forefront (push = regulations, pull = incentives)

Group 5: Incentives

Analysis and research of green design strategies not typically done as part of public building design can be added costs. Incentives, whether financial or other, have proved successful in motivating a shift in traditional practice. This working group will recommend whether and how new incentive programs should be established, and to what degree there should be more new or existing incentive programs.

Key Barrier Issues:

- Bidding and awarding process
 - Financial impacts
 - Time impacts
 - Quality impacts
 - Alternative selection/award process as an incentive for sustainable design
- Incentives needed for integrated design
- Incentives needed for commissioning
- School Building Assistance Authority as a vehicle for monetary incentives
- Incentives for each of the other six workgroups
- Paperwork: a barrier to getting financial incentives v. streamlining
- Lack of education and general awareness of sustainable design at review/finance/public agencies
- Lack of understanding of smart growth issues particularly around transportation as barriers to sustainable project siting and land use (master planning)
- Push incentives v. pull incentives: how to get people to demand sustainably designed projects
- Leadership: needs a top-down commitment of major agencies. How to get the leaders of these agencies
 excited about green/sustainable design? -OR- Bottom-up leadership champion committees within these
 agencies.

Initial Recommendations:

- Create incentives for town planners to re-examine town master plans to consider smart growth ideals and adapt bylaws
- Use alternative procurement more often and make sustainable design a larger percent of award criteria (in pregualifying and selecting architects and contractors)
- Establish a ten-year plan of code upgrades in sustainable design requirements for state and local projects
- Reward city and town officials for LEED accreditation
- Inventory of currently offered incentives
- Faster/easier permitting and project review for sustainable projects (an incentive)
- Encourage understanding of the technical program for a project along with commissioning early in the process

Group 6: Sustainable Design Metrics

Documenting and measuring the benefits of green buildings, while critical to promoting green building design, are not always conducted using standard information and methodologies. The working group will investigate ways in which to better document sustainable design and construction in Massachusetts.

Key Barrier Issues:

- LEED Certification
 - Cost of documenting sustainable ability via LEED
 - Too building specific no established standard for community-wide practice
 - Different standards need to establish a unified standard, maybe LEED is not the best choice.
 - Not comprehensive enough to capture all aspects of sustainability
- Need a baseline of where we are on performance (don't know current status of state buildings)
- Political aspects of reporting building performance
- Lack of staff (and an inherent bias) to assess performance, though use of LEED helps as it brings in outside staffing that is unbiased.
- The State is not tracking performance after certification to insure expected savings are actually achieved.
 Building should be reassessed every few years.
- People look at sustainability too narrowly based on their area of expertise.
- A broad enough standard of sustainability is not present and is needed. Engineering based standards are not broad enough to capture all necessary aspects of sustainability such as:
 - o health of employees, students or the community at large;
 - productivity
 - o environmental impacts external to the building
 - o economic competitiveness, etc.
- How to transition from science based to social ("fuzzy") metrics? Social aspects not adequately measured.
- Outside the building issues/impacts neglected.

Initial Recommendations:

- Life cycle costing
- Performance-based designer fees
- Tie sustainable design metrics to building-specific performance and broadest issues of social and economic benefits

Resources Needed:

- Need to gather information on existing state initiatives and how they measure success
- Research/summarize state activities/standards and measurements in use (in-house)

Group 7: Standards, Codes and Regulations

Building codes, requirements and regulations can be barriers to sustainable design if they are not coordinated or have common policy goals. This working group will examine state and local regulations as they pertain to design and construction and make recommendations on how they can be updated, coordinated or streamlined to achieve sustainable design policy goals.

Key Barrier Issues:

- 1. Standards and codes and federal requirements
 - Issues with codes not communicated to code writers no communication mechanism
 - Not written to legally mandate (or even encourage) green building
 - Integration, education and visibility for building codes
 - Fire protection (e.g. underfloor delivery system for air sprinkler system required (expensive))
 - ADA (federal)
 - Codes may be a disincentive to implementing sustainable technologies
 - Integrated design is not part of approach or understanding
 - Lack of education/understanding of certain technologies and green design in general
 - Parallel movement with sustainability transformation
 - Do variances lead to change?
- 2. State laws and regulations
 - Public bidding laws (must select lowest bidder) there is a nexus with the "bidding" subgroup. .
 - Sequencing design \rightarrow bid \rightarrow contract. Earlier participation of potential contractors would help with integrated design, but current bid laws make this difficult (if not illegal)
 - Chapter 13 promotes energy efficiency. Concern for the next generation if the IBC is adopted.
 - Life cycle cost analysis (e.g. required, but no teeth; regulations not strong enough; LCCA just ends up being a formality and is not used)
 - DEP regulations (e.g. wastewater and hazardous waste)
 - Agency funding/staffing
 - Integrated design is not part of approach or understanding
 - Lack of education/understanding of certain technologies and green design in general
 - Are designated recycling areas potential risks?
 - Regulations regarding recycling potential violation of codes/regulations
 - · Lack of funding and staffing
- 3. Municipal ordinances and approvals, local zoning laws, local inspections
 - Zoning (anti-density, anti-mixed-use)
 - Barriers related to dissemination of information & education, especially to inspectors, plumbers, etc.
 - Integrated design is not part of approach or understanding
 - Lack of education/understanding of certain technologies and green design in general
 - Lack of funding and staffing

Next Steps:

- Develop a baseline
 - Determine which standards and codes are barriers and how
 - Determine which state laws and regulations are barriers and how
 - Determine which local ordinances, zoning laws, etc are barriers and how
- Investigate other models (different states, countries)
- Revisit Ward Commission/construction reform (bid and contract)
- Reach out to get feedback from practitioners on problem areas (BSA, other groups)
- Look into New Buildings Institute (http://www.newbuildings.org/) and other resources
- Review DCAM Form 9, Appendix N
- Governor's use of Executive Orders for energy efficiency
- Climate Change Action Plan commitments
- Beware of overlap with other workgroups
- Education to keep up with new developments/inspectors/culture

Working Group Presentations

John DiModica, Division of Capital Asset Management
Sustainable Design Program Manager and Co Chair, Sustainable Design Roundtable

The meeting reconvened after the working groups concluded their tasks. A representative from each working group reported on the ideas developed in their group. These presentations were summarized from the notes taken during the breakout sessions.

Next Steps

In the last segment before lunch, the Roundtable turned its focus to the next steps. A preliminary workplan was presented that includes a schedule of five additional meetings and a general timeline of tasks. These tasks involve working group updates at each Roundtable meeting, special topic presentations, and the scoping and implementing of research studies on barriers to be done by in-house staff or outside consultants.

The schedule for the Roundtable meetings that was agreed upon by the participants were morning sessions every two to three months, generally on the second Thursday of the month at locations to be determined in the Boston area:

Meeting 2 - March 10, 2005

Meeting 3 - June 9, 2005

Meeting 4 - September 15, 2005

Meeting 5 - December 8, 2005

Meeting 6 – February 9, 2006

At the breakout sessions, working groups planned the next time to meet in small groups in order to refine their preliminary findings on barriers, strategies and resource needs. The working groups are preparing presentations for the second Roundtable meeting on March 10, 2005 that will address four areas of their barrier topics:

- 1. State-of-the-art in research, reports, analyses, programs, and examples
- 2. Scope of problem
- 3. Scope of solutions financial, legislative, regulatory, technical and outreach
- 4. Process for how to get to recommendations Is research necessary? Should such research be provided? Do we need to go internally or should consultants be hired to provide greater detail for certain scopes of work?

Logistics

At subsequent Roundtable meetings, the working groups will provide progress reports and updates on ongoing consultant and in-house research. The last Roundtable meeting will present final consensus recommendations and develop a timeline and workplan for the recommendations.

During the course of the morning, several Roundtable members offered to serve on the Steering Committee, as well as offered to sponsor meetings at their offices or give in-kind contributions. A Steering Committee will be formed using this input to provide guidance, feedback, and direction to the Roundtable and Roundtable staff. Turner Construction was thanked for underwriting the lunch.

Meeting Evaluation and Comments

During lunch, a discussion was held on what worked and what did not during the morning and solicited suggestions for ways to improve future meetings. The following are notes taken during this segment:

- Need to sustain effort over 13 months
- How to ensure that recommendations are implemented
- · How to make this an inclusive organization going forward
- Invite trade organizations to be part of the Roundtable
- Change terminology from "sustainable design" to broaden the scope, such as "sustainable facilities" or "high performance buildings".
- Need a sprawl/siting/master plan barrier category
- Solicit state and private colleges and universities to do some of the research

Pluses:

- 55-60 people here for half day and for 12 months shows commitment/enthusiasm
- So much expertise in the room
- Assigning to subgroups before the meeting
- Sticking to schedule
- Organization of the Roundtable
- Clear message of mission and agenda
- Great to get keynote speakers

Minuses:

- Noise factor better to do separate break out rooms
- Daunting task
- Need more guidance on expectations and deliverables
- What homework should be done before next meeting
- Provide one page checklist of what is wanted at 3/10 meeting
- Consistency of facilitators over the next 12 month period
- Have recycling at meetings
- Open up to community activists to help with education

Conclusion

This Roundtable was an important jump-start to the process to promote sustainable design and construction in public buildings. This meeting began the implementation of a Roundtable that will encourage dialog and communication about green building issues between public and private design and construction professionals. Key barriers to sustainable design and construction are being examined with the goal of eventually developing consensus recommendations on how to address these barriers. The ultimate mission of the Roundtable was articulated, namely that the Roundtable recommendations will provide for widespread incorporation of sustainable design practices and technologies into all state public construction.

Through small groups and a large roundtable format, design and construction professionals and others responsible for managing and funding public construction projects began discussions on the status and effectiveness of sustainable design in public buildings. During the first meeting, the members reached consensus on the Roundtable process, its goals and a preliminary workplan.

The first meeting of the Roundtable highlighted the key issues surrounding barriers to sustainable design in public construction and began a process for coming up with recommendations by stakeholders from different disciplines. Many firms, consultants, and agencies at high levels of representation chose to attend this first session, knowing that it involves future commitment over the year. The ideas generated provide an excellent basis for a series of recommendations for the Commonwealth. The challenge is to capitalize on this momentum and begin working on the next steps.

Appendix A

COMMONWEALTH OF MASSACHUSETTS SUSTAINABLE DESIGN ROUNDTABLE

AGENDA

100 Cambridge Street, 2nd floor Conference Rooms B and C January 13, 2005 8:00 a.m. to 1:00 p.m.

8:00 – 8:30	I. Registration and Continental Breakfast
8:30 – 9:10	 II. Kick-Off Remarks A. Douglas I. Foy, Secretary, Office of Commonwealth Development B. Ellen Roy Herzfelder, Secretary, Executive Office Of Environmental Affairs C. David Perini, Commissioner, Division of Capital Asset Management D. Rob Pratt, Director, Renewable Energy Trust
9:10 – 9:25	III. Roundtable Introductions
9:25 – 9:45	IV. Background, Structure and Goals A. Massachusetts Construction Programs B. Roundtable History C. Roundtable Goals and Objectives D. First Meeting Objectives
9:45 – 10:00	 V. Discussion of Key Barrier Categories 8. Education and Training 9. Capital vs. Operating Budget 10. Bidding and Awarding Process 11. Vision and Leadership 12. Incentives 13. Sustainable Design Metrics 14. Standards, Codes & Regulations
10:00 – 10:15	BREAK
10:15 – 11:15	VI. Working Group Breakouts
11:15 – 11:50	VII. Presentations by Working Groups
11:50 – 12:15	 VIII. Next Steps A. Workplan B. Steering Committee Membership C. Next Meeting Date and Place D. Sponsorship
12:15 - 1:00	IX. Lunch - Comments / Questions / Meeting Evaluation

I. Registration and Continental Breakfast

Appendix B

1/13/05 Sustainable Design Roundtable Meeting Attendees (p. 1 / 2)

Name	Organization	
Amann, David	NSTAR	
Arons, Dan	Boston Society of Architects c/o ArchiTerra	
Asbury, Tamara	National Association of Industrial & Office Properties	
Batshalom, Barbara	The Green Roundtable	
Beasley, Keith	Massachusetts Port Authority	
Benevides, Linda	Executive Office Of Environmental Affairs	
Boehs Jr., John H.	Arup	
Brown, Paul S.	Drummey Rosane Anderson	
Buckley, Joseph	Department of Housing & Community Development	
Burson, David S.	Massachusetts State College Building Authority, Boston	
Chandler, Robert	Goody Clancy	
Davis, Michael	Bergmeyer Associates, Inc.	
Deegler , Marcia	Operational Services Division	
Devol, Jim	Gilbane Building Company	
DiModica, John	Division of Capital Asset Management	
Eglinton, Aisling	Executive Office Of Environmental Affairs	
Fisher, Kenneth I.	Boston Society of Architects c/o Gensler Associates	
Foy, Douglas	Office of Commonwealth Development	
Friedman, Eric	Executive Office Of Environmental Affairs	
Gately, Mary	Association of General Contractors	
Gaertner, Kurt	Executive Office Of Environmental Affairs	
Greene, Cynthia	US EPA New England	
Grover, William	ICON Architects	
Hanchar, Mark	Turner Construction	
Henderson, Richard	Massachusetts Development Finance Agency	
Hunt, James	Executive Office Of Environmental Affairs	
Hwang, One	Operational Services Division	
Ide, Jenna	Division of Capital Asset Management	
Kearney, Janis	Massachusetts Bay Transportation Authority	
Lelek, M. Magda	Andelman & Lelak Engineering	
Masland, Lawrence	Division of Energy Resources	
McAteer, Michael	National Grid USA	
McGlynn, Edward	NSTAR Electric	
McHugh, Eileen	Division of Energy Resources	
Nikoayev, Dimitriy	Operational Services Division	
Nolan, Marie Zack	Executive Office Of Environmental Affairs	
O'Neill, Fred	Suffolk Construction	
Pain, Aditi	University Of Massachusetts Boston	
Pearson, John	Operational Services Division	
Perini, David	Division of Capital Asset Management	
Petrucelli, Robert	Association of General Contractors	
Picardo, Steven A.	Bank of America	
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1/13/05 Sustainable Design Roundtable Meeting Attendees (p. 2 / 2)

Pratt, Rob	Renewable Energy Trust	
Ranger, Andrea	Department of Education	
Reyelt, William	Department of Housing & Community Development	
Riley, Thomas	Board of Building Regulations and Standards	
Roy Herzfelder, Ellen	Executive Office of Environmental Affairs	
Russell, Jenny	Merck Family Funds	
Savoie, Jeffrey	Consigli Construction	
Somers, Jennifer	Environmental Health & Engineering Services	
Speck, Forrest	University Of Massachusetts Boston	
Tennis, Abbey	Office for Commonwealth Development	
Tinsman, Richard	Massachusetts Technology Collaborative	
Tsoi, Edward	Tsoi/Kobus and Associates	
Vale, Quincy	Powerhouse Enterprises	
Warren, Mark	Sei Companies	
Wernick, Laura	HMFH Architects	
Williams, Michael	Division of Capital Asset Management	
Winslow, Mark	Gilbane Building Company	

Appendix C

Working Group Members for Sustainable Design Roundtable

1. Education and Training			
Keith Beasley, CoChair	Massachusetts Port Authority	617-568-3508	kbeasley@massport.com
Barbra Batshalom, CoChair	The Green Roundtable	617-374-3740	bb@greenroundtable.org
Dakota Butterfield	The Green Roundtable	617-374-3740	dakota@greenroundtable.org
		617-727-	
Eileen McHugh	Division of Energy Resources	4732x40105	eileen.mchugh@state.ma.us
Dmitriy Nikolayev	Operational Services Division	617-720-3351	dmitriy.nikolayev@osd.state.ma.us
Richard Henderson	Mass Development Finance Agency	617-330-2000	rhenderson@massdevelopment.com
Mark Warren	SEi Companies	617-210-1831	mwarren@seicompanies.com
Mary Gately/Robert Petrucelli	Associated General Contractors of Massachusetts	781-235-2680	gately@agcmass.org
Edward McGlynn	NSTAR Electric	781-441-8709	Edward_mcglynn@nstaronline.com
Michael Williams	Division of Capital Asset Management	617-727-4080	michael.williams@state.ma.us
Abbey Tennis	Office for Commonwealth Development	617-573-1375	abbey.tennis@state.ma.us
Mark Winslow	Gilbane Building Company	800 gilbane	mwinslow@gilbaneco.com
Marie Zack Nolan (staff)	Executive Office of Environmental Affairs	617-626-1124	marie.nolan@state.ma.us
Capital vs. Operating Budget			
Michael McAteer, Chair	National Grid USA	508-303-7225	michael.mcateer@us.ngrid.com
Cynthia Arcate	Division of Energy Resources	617-727-4732x40152	cynthia.arcate@state.ma.us
Janis Kearney	Massachusetts Bay Transportation Authority	617-222-1592	jkearney@mbta.com
Katherine Craven	Massachusetts School Building Authority	617-720-4466	kcraven@msba.state.ma.us
Robert Leber	Cosentini	617-494-9090x306	bleber@cosentini-ma.com
Jeffrey Savoie	Consigli Construction	508-473-2850	jsavoie@consigli.com
Joseph Naughton	RF Walsh	617-778-0921	jnaughton@rfwalsh.com
Stephen L. Cowell	Conservation Services Group	508-836-9500	steve.cowell@csgrp.com
Ken Neuhauser	Conservation Services Group	508-836-9500	ken.neuhauser@csgrp.com
Laura Wernick	HMFH Architects	617-492-2200	wernick@hmfh.com
One Hwang	Operational Services Division	617-233-0196	hwang-1k@yahoo.com
John DiModica (staff)	Division of Capital Asset Management	617-727-4080x454	john.dimodica@state.ma.us
,			
3. Bidding & Awarding Process			
Quincy Vale, Chair	Powerhouse Enterprises	978-327-5994	Vale@Powerhouse-enterprises.com
Marcia Deegler	Operational Services Division	617-720-3356	marcia.deegler@osd.state.ma.us
Andrea Ranger	Department of Education	781-338-6531	aranger@doe.mass.edu
<u> </u>	Massachusetts State College Building Authority,		J. O
David S. Burson	Boston	617-542-1081x22	dburson@mscba.org
Steven A. Picardo	Bank of America	617-434-8435	steven.a.picardo@bankofamerica.com
James Devol	Gilbane Building Company	800 gilbane	jdevol@gilbaneco.com
Barbara Boylan	Massachusetts Bay Transportation Authority	617-222-3752	bboylan@mbta.com
Marie Zack Nolan (staff)	Executive Office of Environmental Affairs	617-626-1124	marie.nolan@state.ma.us

4. Vision & Leadership			
Mark Hanchar, Chair	Turner Construction	617-247-6400	mhanchar@tcco.com
Cynthia Greene	US EPA New England	617-918-1813	greene.cynthia@epa.gov
Edward Tsoi	Tsoi/Kobus and Associates	617-475-4221	etsoi@tka-architects.com
Dan Arons	Boston Society of Architects c/o ArchiTerra	617-778-2470	darons@architerra-inc.com
Nancy Hazard	Northeast Sustainable Energy Association	413-774-6051	nhazard@nesea.org
Dano Weisbord / William			
Coleman	CLF Ventures	617-850-1713	dweisbord@clf.org
Jenny Russell	Merck Family Funds	617-696-3580	jrussell@merckff.org
John Pearson	University of Massachusetts student	617-266-1087	jfpearso@student.umass.edu
Eric Friedman (staff)	Executive Office Of Environmental Affairs	617-626-1034	eric.friedman@state.ma.us
5. Incentives			
Forrest Speck, CoChair	University Of Massachusetts Boston	617-287-5000	formation ask@umb adu
Fred O'Neill, CoChair	Suffolk Construction	617-445-3500	forrest.speck@umb.edu
William Reyelt	Department of Housing & Community Development	617-573-1355	foneill@suffolkconstruction.com
Richard Tinsman	Massachusetts Technology Collaborative	508-870-0312x486	william.reyelt@state.ma.us
	Drummey Rosane Anderson		tinsman@masstech.org
Paul S. Brown	ICON Architects	617-969-9054	brown@draws.com
William Grover		617-451-3333	bgrover@iconarch.com
David Hancock	NAIOP c/o CBT/Childs Bertman Tseckares Inc.	617-262-4354	Hancock@CBTarchitects.com
Ray Johnson	Massachusetts Housing Finance Agency	617-854-1701	rjohnson@masshousing.com
Marie Zack Nolan (staff)	Executive Office Of Environmental Affairs	617-626-1124	marie.nolan@state.ma.us
6. Sustainable Design Metrics			
John H. Boehs Jr., Chair	Arup	617-864-2987	john.boehs@arup.com
James Doolin	Massachusetts Port Authority	617-946-4490	jdoolin@massport.com
Tim Love	UTILE, Inc.	617-423-7200	love@utiledesign.com
Robert Chandler	Goody Clancy	617-262-2760	Robert.Chandler@goodyclancy.com
M. Magda Lelek	Andelman & Lelek Engineering	781-769-8773	magda@andelmanlelek.com
David Amann	NSTAR	781-441-8123	david_amann@nstaronline.com
Richard Murphy	KeySpan Energy	781-466-5116	rmurphy@keyspanenergy.com
Michael Davis	Bergmeyer Associates, Inc.	617-542-1025	mdavis@bergmeyer.com
Peter Gorer	Hanscomb, Faithful & Gould	617-423-5548	peter.gorer@hanscombfgould.com
Marie Zack Nolan (staff)	Executive Office Of Environmental Affairs	617-626-1124	marie.nolan@state.ma.us
7. Standards, Codes & Regulations			
Kenneth I. Fisher, CoChair	Boston Society of Architects c/o Gensler Associates	617-292-4432	ken_fisher@gensler.com
Kim Cullinane, CoChair	Massachusetts Technology Collaborative	508-870-0312	cullinane@masstech.org
Lawrence O. Masland	Division of Energy Resources	617-727-4732x40137	lawrence.o.masland@state.ma.us
Joseph Buckley	Department of Housing & Community Development	617-573-1163	joseph.buckley@state.ma.us
Aisling Eglington / James Hunt	Executive Office Of Environmental Affairs	617-626-1024	aisling.eglington@state.ma.us
Philip Poinelli	Symmes Maini & McKee Associates	617-520-9219	p_poinelli@smma.com
Allan Ames	Bard, Rao + Athanas Con. Eng (BR+A)	617-254-0016	aa@brplusa.com
Jennifer Somers	Environmental Health & Engineering Services	617-254-0016	jsomers@eheinc.com
Thomas Riley	Board of Building Regulations and Standards	617-727-3200	tom.riley@state.ma.us
Aditi Pain	University Of Massachusetts Boston	617-287-5000	umbe.green@umb.edu
A. Vernon Woodworth	Sullivan Code Group	617-523-8227x225	avw@rwsullivan.com
Marie Zack Nolan (staff)	Executive Office Of Environmental Affairs	617-626-1124	marie.nolan@state.ma.us